

## UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS FILE X WATER SANDS LOCATION INSPECTED SUB REPORT abd

DATE FILED 12-20-79

LAND: FEE & PATENTED STATE LEASE NO PUBLIC LEASE NO U-013765 INDIAN

DRILLING APPROVED: 1-4-80

SPUDDED IN:

COMPLETED: PUT TO PRODUCING

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION 5154' GL

DATE ABANDONED: 12-12-80 Location Abandoned (Well Never Drilled) 1-12-81

FIELD: Island 3/86 Natural Buttes

UNIT: River Bend

COUNTY: Uintah

WELL NO: River Bend Unit 11X-13E API NO. 43-047-30668

LOCATION 1963' FT FROM X (S) LINE. 2242' FT FROM X (W) LINE. NE SW 1/4 - 1/4 SEC 13

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
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10S

19E

13

MAPCO PRODUCTION COMPANY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL WELL ☐GAS WELL ☒

OTHER

SINGLE ZONE ☒MULTIPLE ZONE ☐

## 2. NAME OF OPERATOR

MAPCO PRODUCTION COMPANY

## 3. ADDRESS OF OPERATOR

1537 Ave. D., Suite 320

Billings, Montana 59102

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

NE SW Section 13, T., 10 S., R. 19 E.

At proposed prod. zone 2242' FWL &amp; 1963' FSL

Same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

16 miles SW of Ouray, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

1963'

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

50'

## 16. NO. OF ACRES IN LEASE

1097.87

## 19. PROPOSED DEPTH

2200'

Green River

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

640

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5154' GL

## 22. APPROX. DATE WORK WILL START\*

November 1, 1979

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	7-5/8"	24#	200'	Cement to surface.
6-1/4"	4-1/2"	9.5#	2200'	Cement to surface.

See attached Ten-Point Compliance Program.

This is the second well on this location, but the wells will not be completed

RECEIVED

DEC 20 1979

THIS APPROVAL IS CONDITIONED TO INCLUDE ALL  
ATTACHED STIPULATIONS TOGETHER WITH THE  
SURFACE USE PLAN WHICH WAS APPROVED INITIALLY  
ON 4-25-78 FOR WELL #11-13E.DIVISION OF SURFACE DISTURBANCE REQUIRED  
OIL, GAS & MINING

See Well #11-13E

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

Richard Baumann

TITLE Engineering Technician

DATE October 22, 1979

(This space for Federal or State office use)

PERMIT NO.

43047-30668

APPROVAL DATE

January 4, 1980

DISTRICT ENGINEER

DATE

DEC 18 1979

APPROVED BY

E. W. Snyman

TITLE

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED  
TO OPERATOR'S COPY

NOTICE OF APPROVAL

\*See Instructions On Reverse Side

Utah State Oil &amp; Gas

Oil and Gas Drilling

EA #056-80

United States Department of the Interior  
Geological Survey  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

Usual Environmental Analysis

Lease No.: U-013765

Operator: Mapco Production Company

Well No.: 11X-13E

Location: 2242' FWL & 1963' FSL      Sec.: 13      T.: 10S      R.: 19E

County: Uintah

State: Utah

Field: River Bend

Status: Surface Ownership: Public

Minerals: Federal

Joint Field Inspection Date: Waived, BLM & USGS

Participants and Organizations:

Related Environmental Analyses and References:

(1) EA #959-78

(2) EAR, Oil and Gas Leasing Program, Vernal District, Utah,  
BLM, Vernal.

Analysis Prepared by: George Diwachak  
Environmental Scientist  
Salt Lake City, Utah

Date: December 3, 1979

Noted - G. Diwachak

Proposed Action:

On October 26, 1979, Mapco Production Company filed an Application for Permit to Drill the No. 11X-13 development well, a 2200 foot gas test of the Green River Formation, located at an elevation of 5154 feet in the NE/4 SW/4 Section 13, T10S, R19E on Federal mineral lands and public surface, lease No. U-013765. This well would be drilled on an existing drill pad, used for a Wasatch Formation gas test. No additional surface disturbances for roads or pad would be necessary.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface Plan are on file in the U.S.G.S. District Office in Salt Lake City, Utah and the U.S.G.S. Northern Rocky Mountain Area Office in Casper, Wyoming. The 13-Point Surface Protection Plan is on file in the District Office in Salt Lake City.

A working agreement has been reached with the BLM the controlling surface agency. Rehabilitation plans would be decided upon as well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

The anticipated starting date is upon approval and duration of drilling activities would be about 6 days.

Location and Natural Setting:

The proposed drillsite is approximately 16 miles southwest of Ouray, Utah, the nearest town. A fair road runs to the location. This well is in the River Bend field.

Topography:

The local topograhly consists of rolling hills and desert like conditions.

Geology:

The surface geology is the Uinta Formation.

The soil is sandy clay.

No geologic hazards are known near the drillsite.

Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist. Loss of circulation may result in the lowering of the mud levels, which might permit exposed upper formations to blow out or to cause formations to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep in to the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occurring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation. The operator plans to use air as a circulating medium as much as possible which would reduce the potential for lost circulation.

A geologic review of the proposed action has been furnished by the Area Geologist, U. S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey Engineers and determined to be adequate.

#### Soils:

No detailed soil survey has been made of the project area. The top soils in the area range from a sandy clay to a clay soil. The soil is subject to runoff from rainfall and has a high runoff potential and sediment production would be moderate. The soils are mildly to moderately alkaline and support the salt-desert shrub community.

Top soil has been removed from the surface and stockpiled. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access road per the recommendations of the Bureau of Land Management.

Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated.

Precipitation:

Annual rain fall should range from about 8" to 11" at the proposed location. The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is around 8".

Winds are medium and gusty, occurring predominately from west to east. Air mass inversions are rare and seasonal. The climate is semi-arid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

Surface Water Hydrology:

The location is within the Green River Drainage Basin approximately 5 miles east of the Green River.

Additional erosion would be expected in the area. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface water systems. The potentials for pollution would be present from leaks and spills. The operator is required to report and clean-up all spills or leaks.

Ground Water Hydrology:

Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination and comingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The depths of fresh water formations are listed in the 10-Point Subsurface Protection Plan. The pits would be unlined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

Vegetation:

Plants in the area are of the salt-desert-shrub types.

The operator proposes to rehabilitate the surface upon completion of operations.

Wildlife:

The fauna of the area consists predominately of pronghorn antelope, mule deer, coyotes, rabbits, foxes, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

An animal and plant inventory has been made by the BLM. No endangered plants or animals are known to inhabit the project area. Although the American Bald Eagle and Peregrine Falcon migrate through the area, the project should have little or no effect on these areas.

Social-Economic Effect:

An on the ground surface archaeological reconnaissance would not be required prior to approval of the proposed action.

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and is judged to be minor. All permanent facilities placed on the location would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operations may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

The site is not visible from any major roads. After drilling operations, completion equipment would be visible to passersby of the immediate area but would not present a major intrusion.

The economic effect of one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are significant in Uintah County.

But should this well discover a significant new hydrocarbon source, local, state and possibly national economics might be improved. In this instance, other development wells would be anticipated, with substantially greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

The proposed location is within the Hill Creek Planning Unit. This Environmental Assessment Record was compiled by the Bureau of Land Management, the surface managing agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives use recommendations. The E.A.R. is on file in the agency's State offices and is incorporated herein by reference.

#### Waste Disposal:

The mud and reserve pits would contain all fluids used during the drilling operations. A trash pit or cage would be utilized for any solid wastes generated at the site and would be removed at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.



Alternative to the Proposed Action:

1). Not approving the proposed permit -- the oil and gas lease grants the lessee exclusive right to drill for, mine, extract, remove and dispose of all oil and gas deposits.

Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under U.S.G.S. and other controlling agencies supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of oil and gas should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.

2). Minor relocation of the wellsite and access road or any special, restrictive stipulations or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetation, animal or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

Mitigative Measures and Stipulations:

Drilling should be allowed provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator.

1. No additional surface disturbances will be authorized.
2. There shall be no burying of garbage and trash at the well location. Trash and garbage must be contained and hauled to an approved disposal site.
3. Rehabilitation and revegetation will follow guideline previously stipulated for Well #11-13E.

Adverse Environmental Effects Which Cannot Be Avoided:

Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution

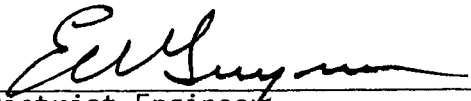
would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, gas leaks, and spills of oil and water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for sub-surface damage to fresh water aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable commitment of resources would be made. Erosion from the site would eventually be carried as sediment in the Green River. The potential for pollution to the Green River would exist through leaks and spills.

Determination:

This requested action does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, 102 (2) (C).

Date

12/18/79

  
District Engineer  
U. S. Geological Survey  
Conservation Division  
Oil and Gas Operations  
Salt Lake City District

**\*\* FILE NOTATIONS \*\***

DATE: January 3, 1980  
OPERATOR: Mapco Production Company  
WELL No. River Bend Unit #11k-13E  
LOCATION: SEC. 13 T. 10S R. 19E COUNTY Uintah

FILE PREPARED: \_\_\_\_\_ ENTERED ON NID: \_\_\_\_\_  
CARD INDEXED: \_\_\_\_\_ COMPLETION SHEET: \_\_\_\_\_

\_\_\_\_\_ API NUMBER: 43-047-30668

CHECKED BY: \_\_\_\_\_

GEOLOGICAL ENGINEER: \_\_\_\_\_

PETROLEUM ENGINEER: \_\_\_\_\_

DIRECTOR: I consented upon survey plat unless plat for  
APPROVAL LETTER: well 11-13 E well surface. I think it should

BOND REQUIRED: \_\_\_\_\_ SURVEY PLAT REQUIRED: \_\_\_\_\_

ORDER No. \_\_\_\_\_ O.K. RULE C-3 ✓

RULE C-3(c), TOPOGRAPHIC EXCEPTION/COMPANY OWNS OR CONTROLS ACREAGE  
WITHIN A 660' RADIUS OF PROPOSED SITE \_\_\_\_\_

LEASE DESIGNATION Sec. Unit PLOTTED ON MAP ✓

APPROVAL LETTER WRITTEN ✓

ltn

NE  
PI

January 4, 1980

Mapco Production Company  
1537 Avenue "D", Suite 320  
Billings, Montana 59102

Re: Well No. River Bend Unit #11X-13E  
Sec. 13, T. 00S, R. 19E.,  
Uintah County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER  
Geological Engineer  
Office: 533-5771  
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-047-30668.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder  
Geological Engineer

/b:tm

cc: USGS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other

2. NAME OF OPERATOR MAPCO Production Company  
Alpine Executive Center

3. ADDRESS OF OPERATOR 1643 Lewis Ave., Suite 202  
Billings, MT 59102

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 2242' FWL & 1963' FSL, NE SW  
AT TOP PROD. INTERVAL: Sec. 13  
AT TOTAL DEPTH: SAME

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) Well Status

☐  
☐  
☐  
☐  
☐  
☐  
☐  
☐

5. LEASE  
U-013765

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
River Bend Unit

8. FARM OR LEASE NAME

9. WELL NO.  
RBU 11X-13E

10. FIELD OR WILDCAT NAME

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec 13, T10S, R19E

12. COUNTY OR PARISH Uintah 13. STATE Utah

14. API NO.  
43-047-30668

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5154' G.L.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The 11X-13E will not be drilled.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Richard Baumann TITLE Engineering Tech. DATE 12-12-80

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

JAN 15 1981

DIVISION OF  
OIL, GAS & MINING

Conservation Division  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

January 12, 1981

MAPCO PRODUCTION COMPANY  
1537 Ave. D., Suite 320  
Billings, Montana 59102

*Location  
Abandon*

Re: Returned Applications for Permit to Drill  
Well No. 11X-13E  
Section 13, T. 10S., R. 19E.  
Uintah County, Utah  
Lease No. U-013765

Well No. 11X-18F  
Section 18, T. 10S., R. 10E.  
Uintah County, Utah  
Lease No. U-013793

Gentlemen:

The Applications for Permit to Drill the referenced wells were approved December 18, 1979. Since that date no known activity has transpired at the approved locations. Under current District policy (Conditions of Approval Item No. 10), Application's for Permit to Drill are effective for a period of one year. In view of the foregoing this office is rescinding the approval of the referenced applications without prejudice. If you intend to drill at these locations on a future date, a new Application for Permit to Drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for these drill sites. Any surface disturbance associated with the approved locations of these wells is to be rehabilitated. A schedule for this rehabilitation must, then, be submitted. Your cooperation in this matter is appreciated.

Sincerely yours,

(Orig. Sgd.) R. A. Henricks

bcc: DCM, CR, O&G, Denver  
BLM-Vernal  
Utah State O&G  
Utah State BLM  
USGS-Vernal  
Well File  
APD Control

*for*  
E. W. Gynn  
District Oil and Gas Supervisor

RAH/TM/tm